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0401748.9 27 January 2004 (27.01.2004) GB(71) Applicant (for all designated States except US): **COPLEY MOTION SYSTEMS LLC [US/GB]**; Luckyn Lane, Pipp's Hill, Basildon, Essex SS14 3BW (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **ROSE, Ian, David**  
[GB/GB]; 144 Overton Road, Benfleet SS7 4DT (GB).(74) Agents: **ROBERTS, Mark, Peter et al.**; J.A. Kemp & Co., 14 South Square, Gray's Inn, London WC1R 5JJ (GB).

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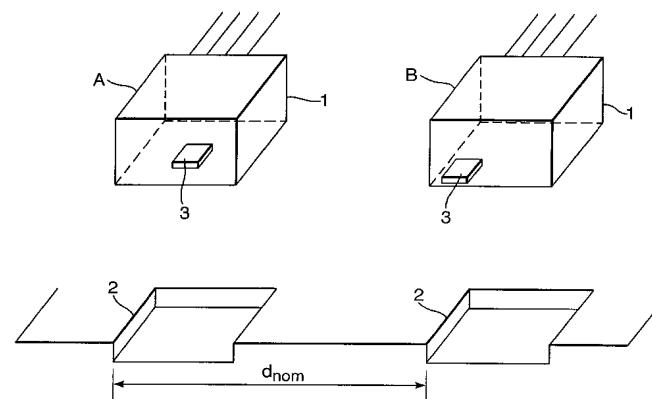
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(57) Abstract: An improved linear motor which compensates for manufacturing or assembly errors in the positioning of the magnetic field detectors. The linear motor synthesises a correction signal which can be simply combined (for example added) to the output of one of the magnetic field detectors so as to ensure that the magnetic field detector outputs have the correct phase relationship. This in turn ensures that accurate positioning of the rotor relative to the stator can be achieved. In a preferred embodiment, a deliberate error is introduced into the positioning of the magnetic field detectors and this error, plus any error due to manufacturing or assembly tolerances, is corrected using the correction signal. This allows a simplified correction circuit which only corrects for phase offset errors in one direction to be used.



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